

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Inaas Darrat

GENERAL INFORMATION:

Name: Pactiv Corporation
Address: 300 Harris Road, Wurtland, KY 41144
Date application received: December 11, 1996
SIC/Source description: 3086 / Plastic Foam Manufacturing
EIS #: 21-089-00014
Application log number: 51263 (G479)
Permit number: V-04-015

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input checked="" type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

☐ Acid rain source
☐ Source subject to 112(r)
☐ Source applied for federally enforceable emissions cap
☐ Source provided terms for alternative operating scenarios
☐ Source subject to a MACT standard
☐ Source requested case-by-case 112(g) or (j) determination
☐ Application proposes new control technology
☒ Certified by responsible official
☒ Diagrams or drawings included
☐ Confidential business information (CBI) submitted in application
☐ Pollution Prevention Measures
☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM ₁₀	2.22	14.51
SO ₂	.0050	.00824
NO _x	.8405	1.37
CO	.1681	1.15
VOC	.0445	.0756
LEAD		
HAP ? 10 tpy (by CAS)		
Methylene Chloride	98.944	517.9

SOURCE PROCESS DESCRIPTION:

Pactiv Corporation operates a polypropylene foam manufacturing plant. The product, Microfoam®, is used for packaging purposes. The raw materials that are used in the process are polypropylene resin and blowing agents, methylene chloride and compound A. Compound A is not a regulated air pollutant. The entire process is a closed system. The blowing agents are not consumed in the process. They are recovered after the Microfoam® is manufactured.

Polypropylene resin is received by rail in covered hoppers. The resin is unloaded by vacuum into 4 silos, then air veyed to a resin feeder which feeds the resin to a heated resin melter. The melted resin is then mixed with the blowing agents (methylene chloride and Compound A) and extruded through a die, forming the Microfoam® sheets. The Microfoam® sheet is then directed to an enclosed room area that allows the blowing agents to be recovered. The Polypropylene Foam Extrusion Line includes all the process units from when the resin is melted to the enclosed room where the blowing agents are recovered.

Then, the Microfoam® is processed in the wind up area for packing and shipping. Waste foam is directed to a shredder (trim flake recovery) and recycled into the process.

The methylene chloride is stored in the 06 (06A) Methylene Chloride Storage Tank. Additionally, Compound A, is stored in 07 (06B) Storage Tank B and 08 (06C) Storage Tank C. All three (3) tanks are located outside the facility. The tanks are surrounded by a dike and equipped with underground fill pipes. After mixing with the resin, the methylene chloride and Compound A vapors are directed from the enclosed room area and die area to a carbon adsorption, 05 (08) Decanting System, and condensation area, 03 (02) Solvent Recovery System, here the blowing agents are recovered and recycled back into the process utilizing the 04 (05) Solvent Make-up System.

EMISSION AND OPERATING CAPS DESCRIPTION:

In permit O-91-012 (Revision 4) in accordance with 401 KAR 63:022, Pactiv Corporation had a source-wide methylene chloride emission limit of 181 lb/hr and the methylene chloride processing rate was limited to 2288 lb/hr. Thus, 401 KAR 63:021 applies to all the facilities at Pactiv that process methylene chloride and the emission and operating limits are also conditions in the Title V operating permit. The emission limit can only be achieved when the 03 (02) Solvent Recovery System and the 05 (08) Decanting System are operated; therefore, the permit has the condition that the 03 (02) Solvent Recovery System and the 05 (08) Decanting System must be in operation while the methylene chloride is being processed in the Polypropylene Foam Extrusion Line.